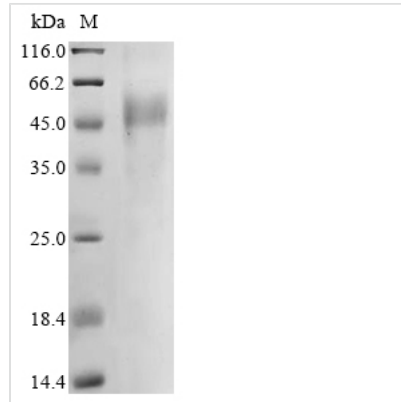




Recombinant Human B-lymphocyte antigen CD19 (CD19), partial

Product Code	CSB-MP004888HU
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P15391
Product Type	Recombinant Proteins
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	PEEPLVVKVEEGDNAVLQCLKGTSDGPTQQLTWSRESPLKPFLLKLSLGLPGLG IHMRLAIWLFIFNVSQQMGGFYLCQPGPPSEKAWQPGWTVNVEGSGELFR WNVSDLGGLGCGLKNRSSEGPSSPSGKLMSPKLYVWAKDRPEIWEGEPPCL PPRDSLNLQSLSQDLTMAPGSTLWLSGCVPPDSVSRGPLSWTHVHPKGPKSL SLELKDDRPARDMWVMMETGLLLPRATAQDAGKYCHRGNTMSFHLEITARP VLWHWLLRTGGWK
Research Area	Immunology
Source	Mammalian cell
Target Names	CD19
Protein Names	Recommended name: B-lymphocyte antigen CD19 Alternative name(s): B-lymphocyte surface antigen B4 Differentiation antigen CD19 T-cell surface antigen Leu-12 CD_antigen= CD19
Expression Region	20-291aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	35.1
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

To make this Recombinant Human CD19 protein, the CD19 gene was isolated at first and cloned into an expression vector. CUSABIO has built a mature recombinant protein platform. This Recombinant Human CD19 protein was developed in the platform. It was expressed in Mammalian cell at the region of 20-291aa of the Human CD19 protein. N-terminal 10xHis tag and C-terminal Myc tag was fused with the expression vector for affinity and purification purposes. The purity is 85%+ determined by SDS-PAGE.

CD19 is a 95-kDa B-lineage specific transmembrane glycoprotein, which functions as a central response regulator in B lymphocytes by decreasing the threshold for antigen-receptor dependent stimulation, thereby enabling B cell activation when few receptors are engaged. With the important exceptions of hematopoietic stem cells and plasma cells, CD19 is expressed during all stages of B-cell differentiation and is maintained on cells that have undergone neoplastic transformation, being expressed on more than 95% of B-cell non-Hodgkin lymphoma and chronic lymphocytic leukemia. Recent studies have also shown that CD19 expression is maintained despite loss of CD20 expression following treatment with CD20 antibodies, which are frequent components of regimens currently used in the management of these disorders. This strict lineage restriction makes CD19 an attractive immunotherapeutic target and strategies directed at this antigen have become the paradigm for therapies employing chimeric antigen receptors.

Shelf Life

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